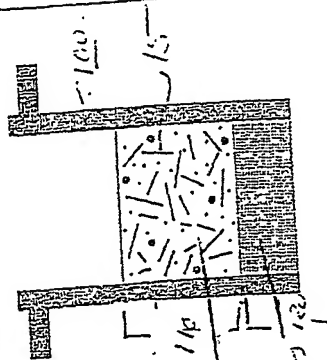


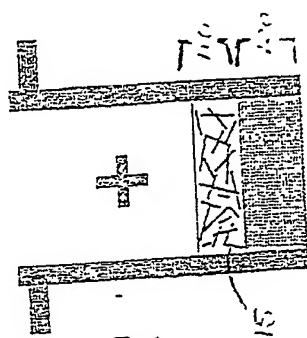
## Step 1

- Load DNA analyte sample into microtiter wells



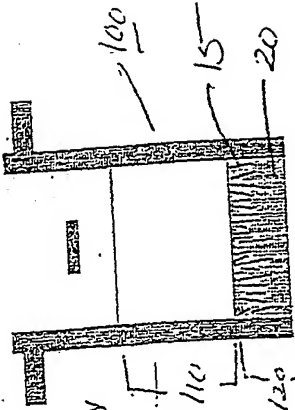
## Step 3

- Replace buffer
- Reduce sample volume in well if concentration of DNA analyte is also desired
- Apply current to denature hybrid and release DNA analyte from capture oligo
- Apply reversed electric field to electrophoretically elute DNA analyte into the sample volume in the well



## Step 2

- Apply electric field to electrophorese all negatively charged molecules
- The DNA analyte will be captured



## Step 4

- Microtiter plate bearing purified and (optionally) concentrated DNA analyte samples ready for further analysis

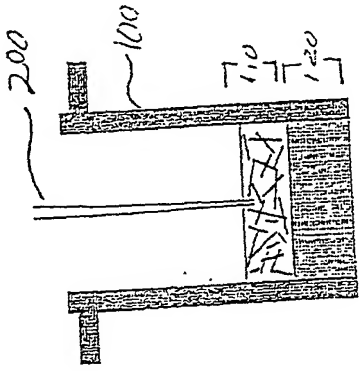


Fig. 1

# Sample Prep for Sequencing

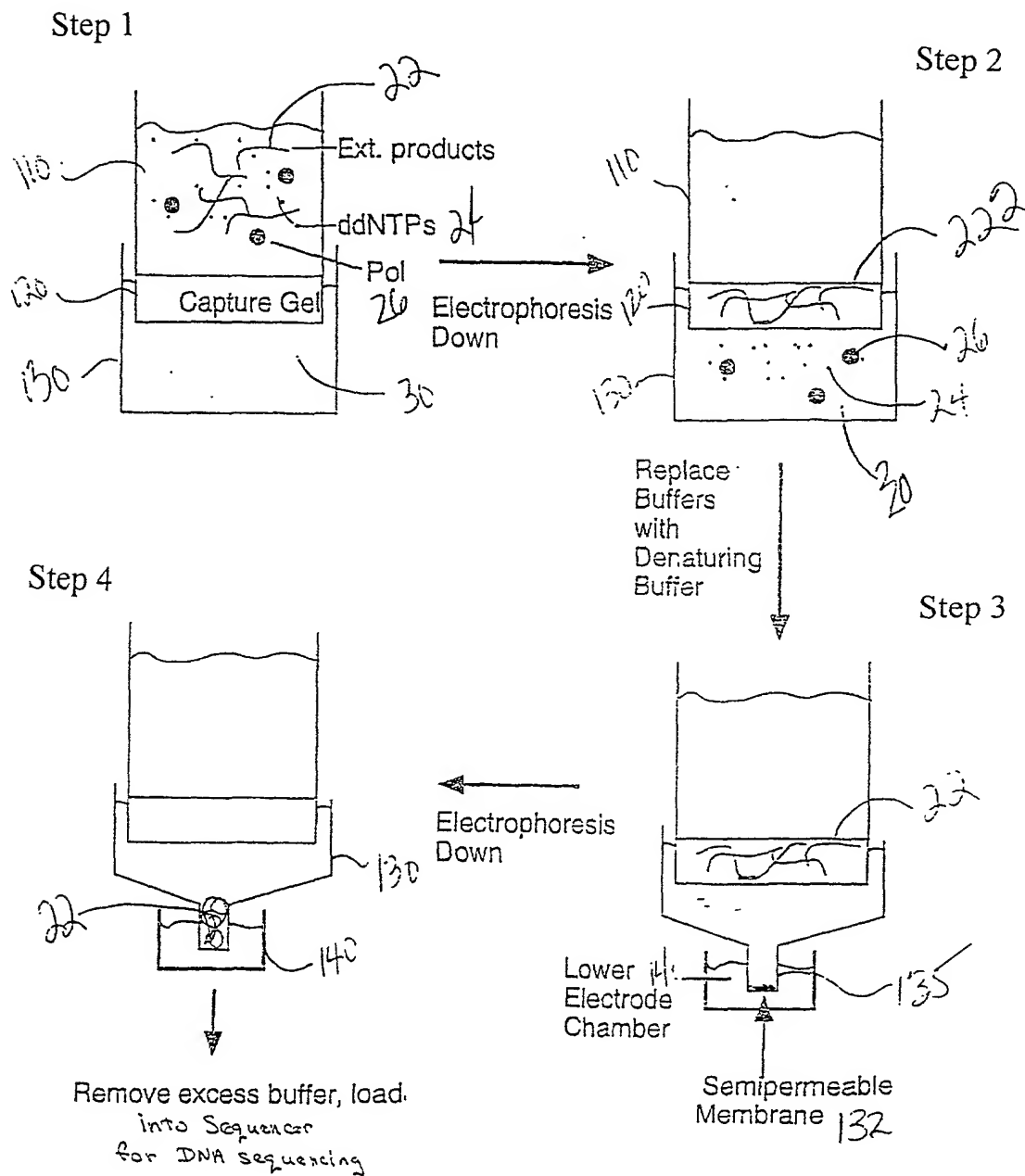


Fig. 2

# Multiplexing: Use of Hybrigel to Purify Products of Multiple Reactions

Capture Probes and Uses Therefor  
 Inventor(s): Weir et al.  
 Serial No.: Not yet assigned  
 Atty Docket No.: EXT-070C1  
 Atty/Agent: Patrick R.H. Waller  
 Express Mail Mailing Label No. EV 012823698 US

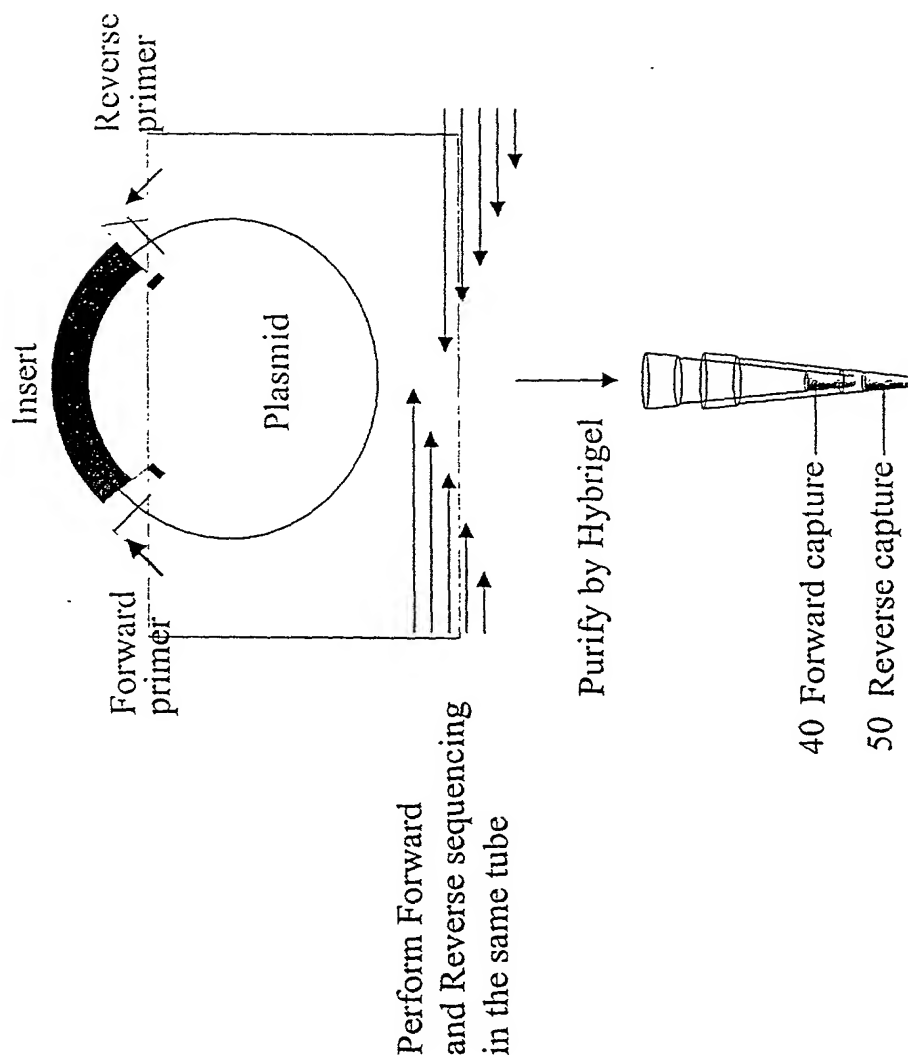


Fig. 3A

For Hybrigel-pure  
 + Rev Reverse

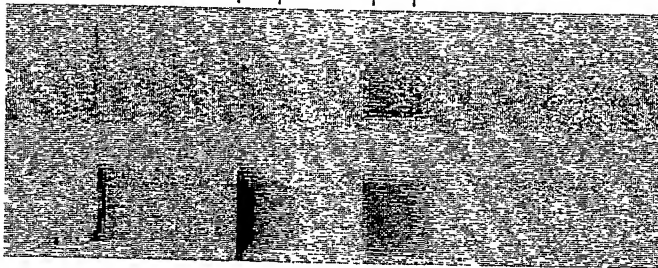


Fig. 3B

Reverse Sequence

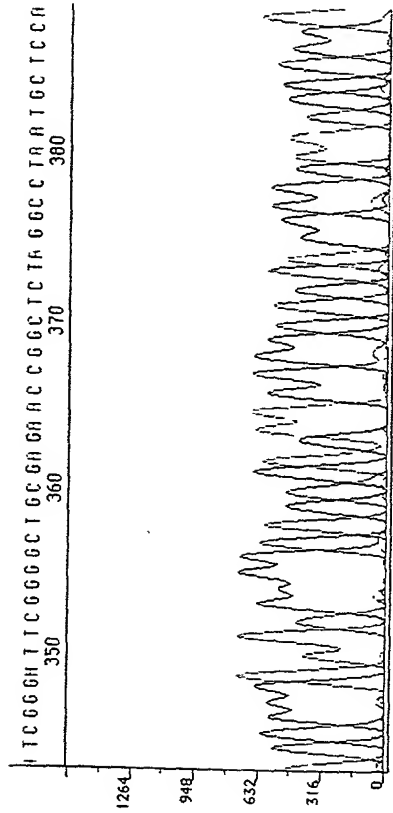


Fig. 3D

Fig. 3C

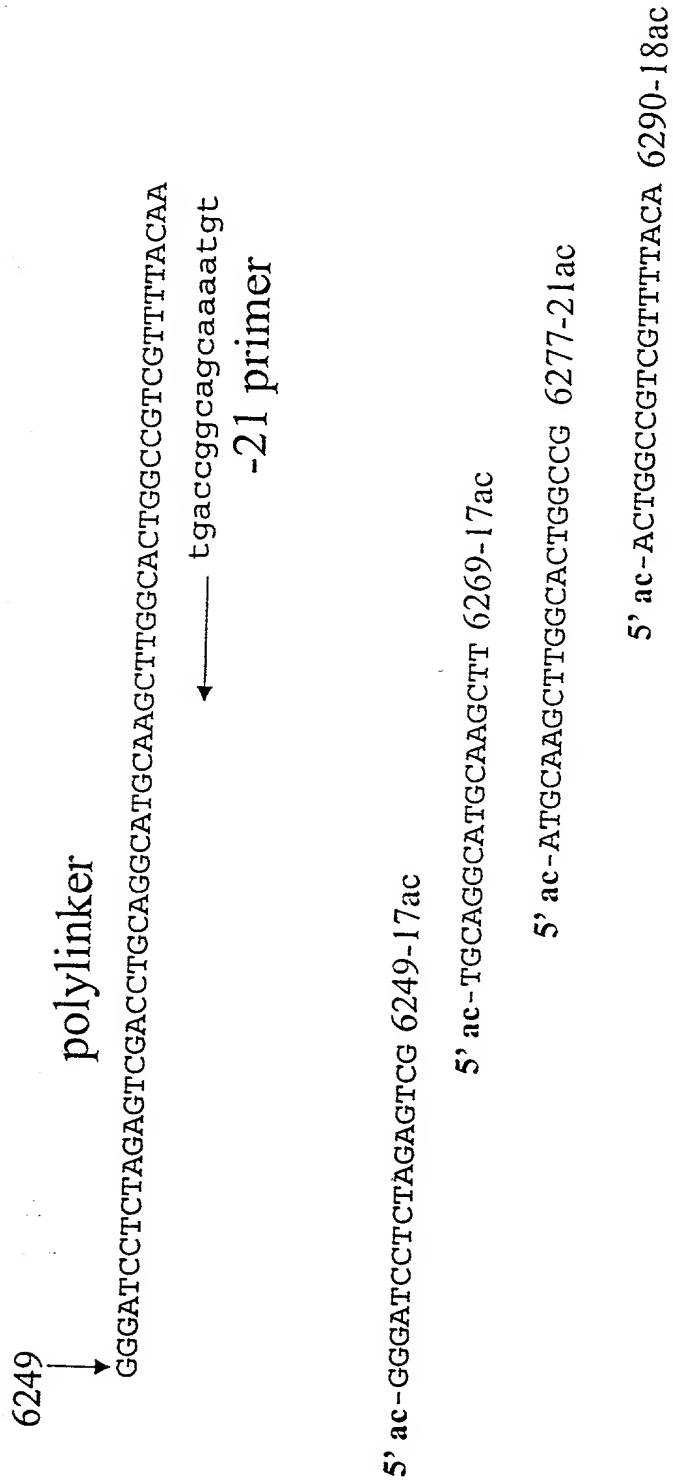


Fig. 3E

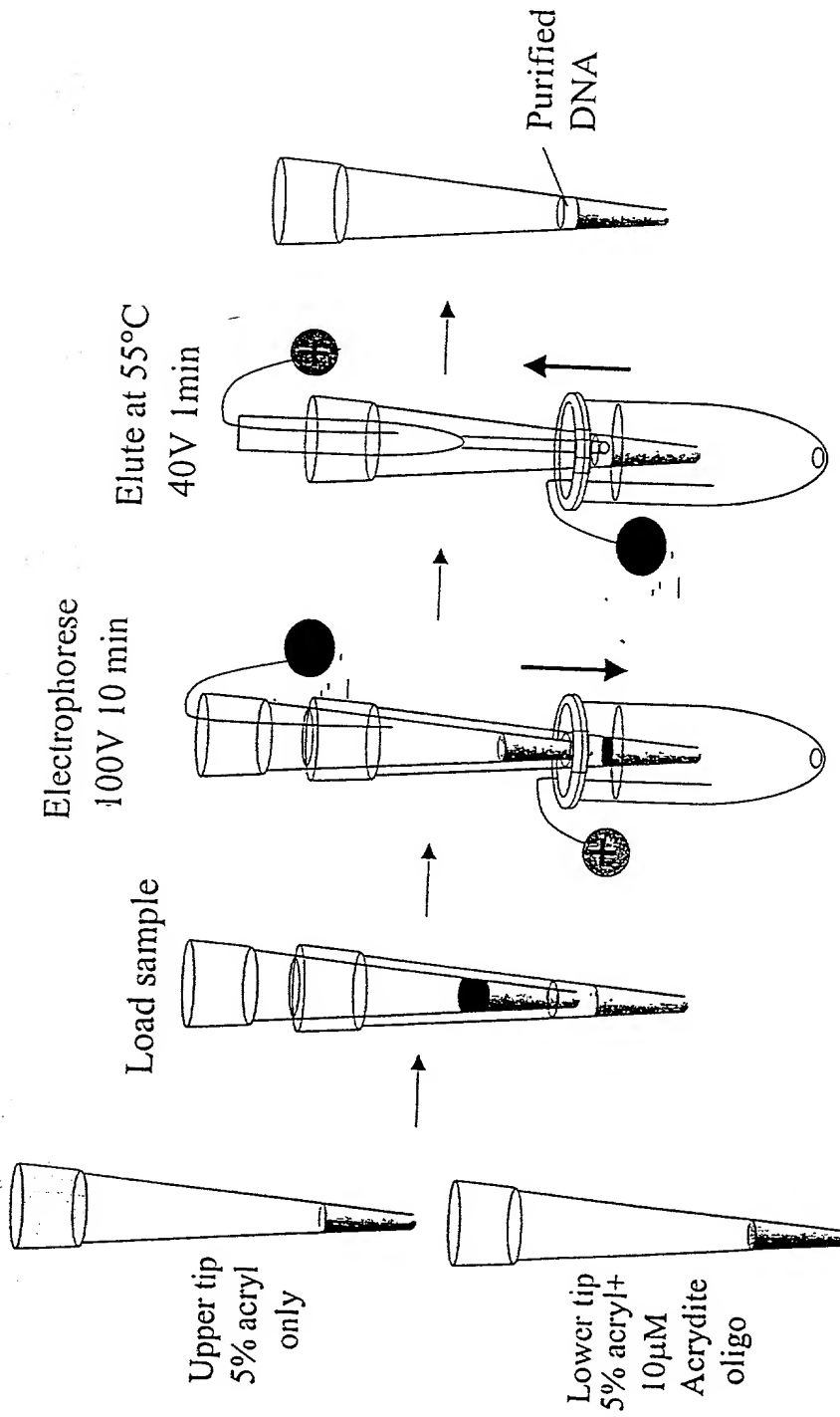


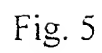
Fig. 4A

Capture Probes and Uses Therefor  
Inventor(s): Weir et al.  
Serial No.: Not yet assigned  
Atty Docket No.: EXT-070C1  
Atty/Agent: Patrick R.H. Waller  
Express Mail Mailing Label No. EV 012823698 US



Captured  
Sequence

Fig. 4B





24.7  
33.7  
43.0  
53.4

Capture layer [ 6249-ac (10μM)

Increasing temperature

Fig. 6

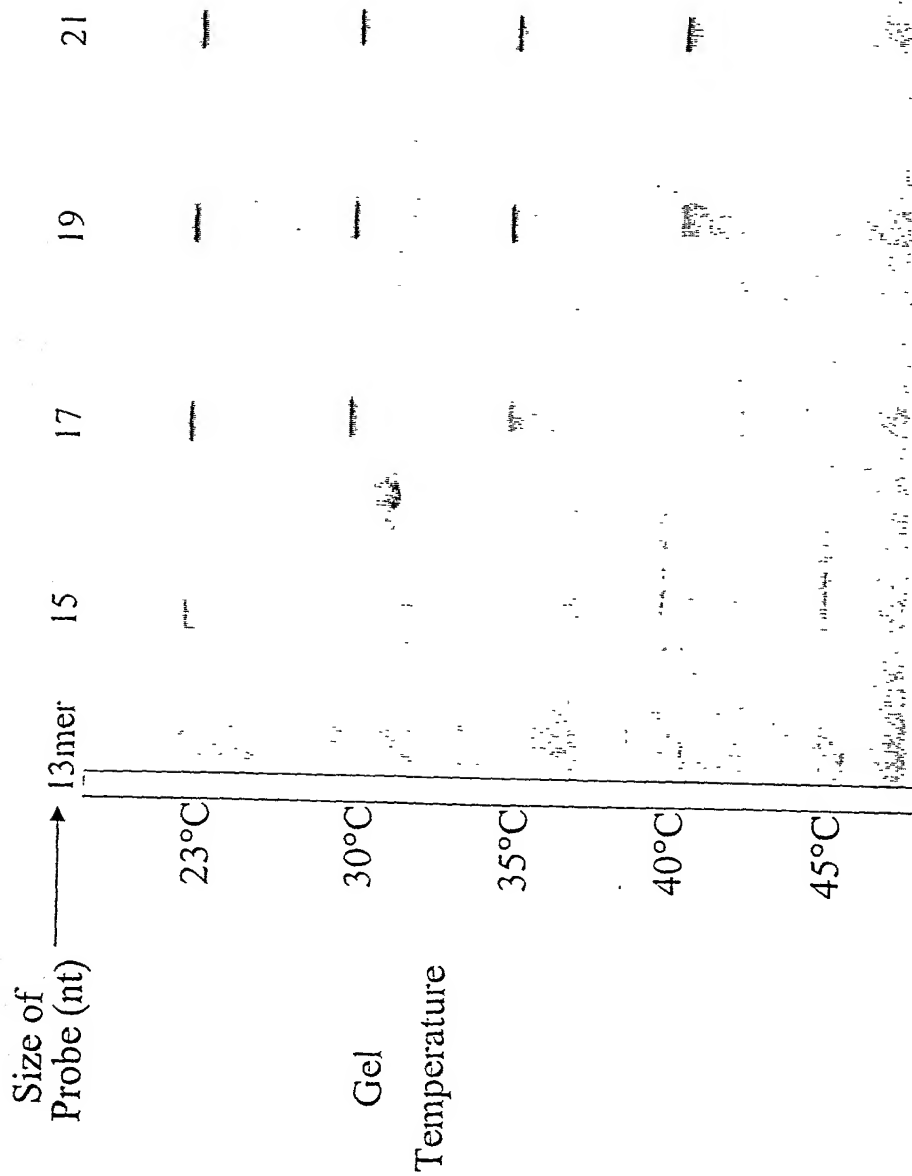


Fig. 7